

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-186730

(43)Date of publication of application : 15.07.1997

(51)Int.Cl.

H04L 27/22

H04L 7/00

H04L 27/38

(21)Application number : 07-343980

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(22)Date of filing : 28.12.1995

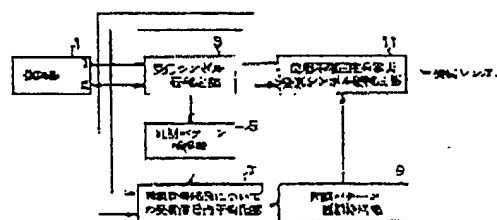
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(54) ABSOLUTE PHASE DETECTOR AND DIGITAL MODULATION WAVE DEMODULATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To stably detect at which phase locking is made by improving the S/N equivalently for a synchronizing signal part.

SOLUTION: A tentative discrimination section receives an I signal and a Q signal demodulated by a demodulator 1 to execute tentative discrimination processing of a received symbol and a synchronizing pattern acquisition section 5 executes the acquisition processing of a synchronizing pattern subjected to tentative decision to generate a frame synchronizing signal. A reception signal averaging section 7 receives the I signal and the Q signal demodulated by the demodulator 1 and the frame synchronizing signal to execute the averaging processing of a reception signal point at a symbol timing interval only for a time of the synchronizing pattern. A synchronization detection section 9 decides at which phase the synchronization pattern is locked based on the averaged signal. A reception symbol hard decision section 11 uses the phase information to decide the reception symbol with phase uncertainty eliminated therefrom.



LEGAL STATUS

[Date of request for examination] 19.11.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3276282

[Date of registration] 08.02.2002

[Number of appeal against examiner's decision of rejection]

Searching PAJ,

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[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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